

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/041358 A3**

(51) International Patent Classification<sup>7</sup>: **H01R 4/50** [US/US]; 1145 saling Way, Laguna Beach, CA 92651 (US).

(21) International Application Number: **PCT/US2004/035199** (74) Agent: **THE MCINTOSH GROUP**; 8000 East Prentice Ave. Suite B-6, Greenwood Village, CO 80111 (US).

(22) International Filing Date: 22 October 2004 (22.10.2004)

(25) Filing Language: English (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(30) Priority Data:  
10/690,839 22 October 2003 (22.10.2003) US (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

10/911,072 4 August 2004 (04.08.2004) US

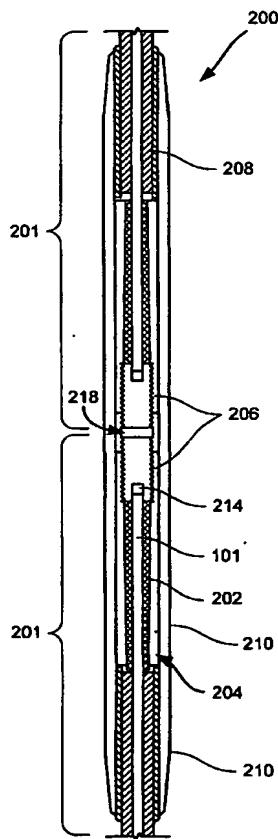
(71) Applicant (for all designated States except US): **COMPOSITE TECHNOLOGY CORPORATION** [US/US]; 2026 McGaw Ave., Irvine, CA 92614 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **BRYANT, David**

[Continued on next page]

(54) Title: A COLLET-TYPE SPLICE AND DEAD END FITTING



(57) Abstract: This invention relates to collet-type fittings (201) for use in collet-type splices and collet-type dead ends and methods for splicing together two aluminum conductor composite core reinforced cables (ACCC) or terminating one ACCC cable. The collet-type fittings (201) comprise a collet (202) coincident with a collet housing (204) to hold the composite cores. The composite cores can be stripped of the aluminum conductor to provide a bond between the collet (202) and the composite core. After inserting the composite core into the collet (202), a compression element (206) compresses the collet (202). The collet (202) holds the composite core with frictional forces and the collet (202) further compresses and strengthens the hold on the composite core if the composite core pulls the collet (202) further into the collet housing (204).

WO 2005/041358 A3



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:  
20 October 2005

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments